ABSTRACT OF THE DISCLOSURE

MANIPULATION OF OBJECTS

A system for manipulation of objects. The system includes N objects, where N is greater than or equal to 2 and is an integer; and a mechanism for controlling and 2D locating of the N objects. A method for manipulating objects. The method includes the steps of receiving information from N objects, where N is greater than or equal to 2 and is an integer, at a centrally controlling and 2D locating controller; determining 2D locations by the controller of the N objects; and transmitting from the controller directions to the N objects for the N objects to move. An apparatus for tracking. The apparatus includes N objects, where N is greater than or equal to 2 and is an integer, each object having an emitter which emits light; and a mechanism for 2D sensing of the N objects over time from the light emitted by each emitter. The present invention pertains to a method for tracking. The method includes the steps of emitting light from N objects, where N is greater than or equal to 2 and is an integer; and sensing 2D locations of the N objects over time from the emitted light from the N objects.